

IN THE CLAIMS:

1-100. (cancelled)

101. (new) A method for control of a printer to process a print job, comprising the steps of:

by a first controller of the printer generating a system time of the printer that is the same for at least first and second subordinate control modules of the printer, the first and second subordinate control modules being subordinate to said first controller;

providing a print data stream of said print job to a second controller;

processing said print data stream in said second controller and during said processing determining single-sheet-related information from the print data stream;

transferring said single-sheet-related information from said second controller to said first controller;

dependent on said single-sheet-related information, by said first controller determining a transport path of the single sheet through the printer to generate at least one print image on at least one side of the sheet;

with said first subordinate control module calculating during said processing of said print job for control of said single sheet a first desired point in time at or until which at least a first sensor signal is expected to be generated by detection of a leading edge of said single sheet from a first sensor;

with said first subordinate control module calculating during said processing of said print job for control of said single sheet a second desired point in time at or until

which at least a second sensor signal is expected to be generated by detection of said leading edge of said single sheet from a second sensor;

said first and second desired points in time being referenced to said system time of the printer;

with said second subordinate control module calculating during said processing of said print job for control of said single sheet at least a third desired point in time at or until which a first actuator is to be activated;

with said second subordinate control module calculating during said processing of said print job for control of said single sheet at least a fourth desired point in time at or until which a second actuator is to be activated;

said at least third and fourth desired points in time being referenced to said system time of the printer or copier;

transferring said desired first, second, third and fourth points in time from said first and second subordinate control modules to a time process task in said first controller;

in at least one sensor determination process determining which one of said first and second desired points in time is to be used in determining when said leading edge of said single sheet is to arrive at said first sensor and monitoring the arrival of said leading edge at said first sensor, said sensor determination process being handled and executed as a sensor task in said first controller;

in at least one actuator determination process determining which of said at least third and fourth desired points in time is to be used in determining when said first actuator is to be activated, said actuator determination process being handled and executed as an actuator task in said first controller;

said time process task, said sensor task, and said actuator task being handled as independent tasks in a multitasking operation of said first controller, the multitasking operation processing capacity of said first controller being allocated among said process task, said sensor task, and said actuator task in time slots;

 said time process task transferring the desired first, second, third and fourth points in time to said actuator task and to a time control unit, the time control unit being separate from the first controller and separate from the first and second subordinate control modules;

 upon reaching one of said first through fourth desired points in time, said time control unit providing an interrupt signal and transmitting the interrupt signal to said time process task;

 upon receiving said interrupt signal, said time process task generating at least one message for at least one of said actuator task and said sensor task;

 upon receipt of a first message for said first actuator from said time process task when said third desired point in time has been reached said actuator task initiating a first action of the first actuator;

 upon receipt of a second message for said second actuator from said time process task when said fourth desired point in time has been reached said actuator task initiating a second action of the second actuator;

 the actuator task transmitting the remaining first and second desired points in time to said sensor task; and

 upon receipt of a third or a fourth message for said first or second sensors from said time process task when said first or second desired points in time have been reached monitoring arrival of said edge by said first or second sensor.

102. (new) The method according to claim 101 wherein the system time is predetermined by a timer with help of a counter that counts a clock signal with a constant frequency.

103. (new) The method according to claim 101 wherein the first or second sensors comprise a light barrier or a swing arm switch by which the first or the second sensor signal is output upon arrival of the sheet edge.

104. (new) The method according to claim 101 wherein the actuator comprises a step motor or a valve.